



Great Lakes Wind Collaborative

Public Service Commission of Wisconsin
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Great Lakes Wind Collaborative Overview

Wind on the Water – Madison, WI
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Charter

Who We Are
How We Work

Purpose

- Build consensus on issues affecting wind power planning, development and operation
- Provide a forum for dialogue and information exchange
- Bring together broad array of interests

Operating Principles

- Strive for a broad, balanced membership
- Operate by consensus to achieve the stated purpose
- Collective decision-making

Structure

- Wind Stakeholders
- Advisory Committee
- Steering Committee
- Workgroups

Wind Stakeholders

- Broadest category of membership
- Anyone interested who agrees with stated purpose and who
 - Wants to receive regular updates
 - Doesn't want to commit
- Receive regular updates via email
- Be asked to provide input into GLWC activities
- May be asked to serve on a workgroup

Advisory Committee

Role and Operations

- Advise Steering Committee on behalf of larger group of interests
- Operate by consensus

Members expected to:

- Serve as liaison between GLWC and their employing agency/organization/company
- Participate in quarterly conference calls/meetings
- Contribute to at least 1 substantive project/activity
- Lead and facilitate workgroups

Advisory Committee Membership

- 7 Federal agencies (U.S. and Canadian)
- 8 States
- 2 Provinces
- Tribes/First Nations
- Municipal Interests
- Trade and not for profit assoc./orgs
- Environmental NGOs/associations
- Electric Utilities
- Wind Industry
- Academic interests
- At-Large
- Observers
- 2 Co-Chairs**

Steering Committee

- Governing board of the GLWC
- Represents sector in decision-making capacity
- Makes timely decisions regarding:
 - Budget
 - Workplan
 - Public outreach
 - Formal statements (media)
- Considers advice of Advisory Committee
- Operates by consensus (can invoke supermajority)

Steering Committee Members

- Serve as a liaison between the GLWC and their agency, organization or company
- Participate in monthly conference calls
- Help plan and attend GLWC annual meeting
- Contribute to at least one substantive GLWC project

Steering Committee Members

- Help develop GLWC work plan and budget to support it
- Lead workgroups
- Make decisions regarding GLWC products and activities
- Help identify appropriate funding sources to support the work of the GLWC

Steering Committee Membership

- 3 federal agencies (U.S. and Can)
 - 2 state/provincial (1 each)
 - 1 tribal/First Nation
 - 1 municipal
 - 1 wind trade assoc.
 - 1 Env. NGO
 - 1 wind industry
 - 1 utility/trade assoc.
 - 1 professional assoc. (non industry)
 - 1 at-large
- 2 Co-Chairs**

Workgroups

- Formed by Advisory Committee
- Address specific priorities (e.g. workplan elements)
- Develop products
- Make recommendations
 - To Advisory Committee
 - >Steering Committee has final approval

Workgroups

- At least (1) member is on Advisory or Steering Committee
- Chair is member of Advisory or Steering Committee
- May include Wind Stakeholders and other interested parties with relevant interest or expertise
- Operate by consensus

Role of Great Lakes Commission

- ✓ secretariat function
- ✓ project administration
- ✓ membership recruitment
- ✓ work team support
- ✓ financial management
- ✓ meeting facilitation
- ✓ data management and web site design
- ✓ communication and information services
- ✓ research, report production, and public liaison

Workplan Intro

- Developed by Acting Steering Committee (SC) in early 2008
- To be updated annually by the SC
- Near-term (current year)
- Long-term (years 2-5)

Workplan Intro

- Long-term work elements may be elevated to current year or next year's near-term items by consensus of the GLWC Steering Committee.

Seven Main Categories

1. Leadership, Regional Coordination and Policy Support
2. Communication and Outreach
3. Research and Data Management
4. Environmental Planning, Siting and Permitting

Seven Main Categories

5. Off Shore Wind in the Great Lakes
6. Transmission and Power System
Integration of Wind Power
7. Economic Development Aspects
of Wind Power

Leadership, Regional Coordination and Policy Support

- a) Using the AWEA/DOE/NREL
“20% Wind Energy by 2030”
report as a guide, establish and
conduct a **process for sustaining
dialogue** to identify and address
key regional wind issues.

The Process for Sustaining Dialogue

1. Establish the GLWC charter and governance structure
2. Coordinate with the MGA Energy Security and Climate Stewardship Platform
3. Coordinate planning efforts with national and state/provincial wind stakeholder groups and support establishment of new wind working groups in GL jurisdictions as appropriate

Leadership, Regional Coordination and Policy Support

- b) Identify and procure funding sources for operation of the GLWC, including specific projects or activities included in the GLWC Charter
- c) Identify and recruit new members to the GLWC



Leadership, Regional Coordination and Policy Support

- d) Work with the Great Lakes Commission membership and other regional organizations (e.g., Council of Great Lakes Governors) to advance priorities of the GLWC
- e) Engage GLWC members to provide feedback and input on federal, state, provincial and regional wind policy development

Communication & Outreach

- a) Host the 1st Annual Meeting (and subsequent annual meetings) of the GLWC
- b) Foster regular communication with national, regional, and state/provincial wind energy stakeholder groups

Communication & Outreach

- c) Establish and maintain an Internet-based communications infrastructure (i.e., web site, listservs, wiki, etc. - done)
- d) Publicize the GLWC's work activities and develop information materials as appropriate

Research & Data Management

- a) Conduct a literature review on Great Lakes wind energy and publish the results online as an annotated bibliography (done)
- b) Begin development of an online Great Lakes Wind Atlas
- c) Conduct a gap analysis on Great Lakes wind and identify areas that require additional research or information

Environmental Planning, Siting and Permitting

- a) Identify and characterize key issues regarding Great Lakes wind power (Use the AWEA/DOE/NREL "20% Wind Energy by 2030" report as a guide)

Environmental Planning, Siting and Permitting

- b) In support of the MGA Platform – research, document and publish information on federal, state and provincial policies and programs that affect the siting and permitting of wind energy facilities

Environmental Planning, Siting and Permitting

- c) Identify, document and publish information about best management practices (BMPs) for siting of wind facilities in the region – consider:
- Wildlife and ecological resources (both offshore & onshore)
 - Visual resources
 - Noise
 - Cultural resources
 - Stormwater
 - Construction, operation, monitoring, decommissioning, mitigation measures, etc.

Off Shore Wind in the GLs

- a) Identify key issues regarding Great Lakes *off shore* wind power and potential conflicts and opportunities in both federal and state/provincial agency jurisdictions (e.g. USFWS, USACE, USCG, DNRs, PUCs, etc.)

GLC Preliminary Research

- ✓ Little policy development in the Great Lakes region and nation
- ✓ Much of the regulatory framework in place is at the federal level
- ✓ Main fed statutes:
 - NEPA
 - Migratory Bird Treaty Act
 - National Historic Preservation Act
 - Submerged Lands Act

GL States and Offshore Wind

- Most discussion has occurred in state wind working groups
- State policies and laws developed without consideration of offshore wind will come into play:
 - Public Trust Mandate for the GLs
 - Coastal Zone Management Act

Off Shore Wind in the GLs

- b) Develop *off shore* data layers for the Great Lakes Wind Atlas
- c) In support of the MGA Platform, document information on relevant U.S. and Canadian policies and procedures for off shore wind siting and permitting

Off Shore Wind in the GLs

- d) Facilitate the implementation of wind energy demonstration projects and/or pilot studies *specifically for offshore wind power*

Partnership with USOWC

- National level focus
- MTC, GE and DOE founders
- John Hummer & Mark Sinclair from GLWC on USOWC Steering Comm
- Common interests and mutual benefits in off shore arena
- Open to any organization or legal entity interested in supporting their mission

Mission of USOWC

- Serve as a multi-sector partnership that identifies and addresses the technical, environmental, regulatory, and financial issues necessary for offshore wind energy to become a commercially, politically, socially, economically and environmentally sustainable energy resource.

Goal of USOWC

- To sustainably generate and deliver electricity from U.S. offshore wind farms at a competitive cost by the beginning of the next decade

Four teams/theme areas

- To pursue actions developed in the group's *framework*
 - Technology development
 - Environmental and Ocean Use Compatibility
 - Regulatory and Policy
 - Economic and Financial Viability

Projected outputs of USOWC

- ✓ Topical reports
- ✓ Coordinated research programs
- ✓ Standards and guidelines
- ✓ Demonstration projects
- ✓ State and federal policy analysis

Projected outputs of USOWC

- ✓ Financing, commercialization and deployment strategies
- ✓ Cross disciplinary sessions for marine scientists & technology engineers
- ✓ Information clearinghouse
- ✓ Public education programs

Transmission & Power System Integration

- Participate in the AWEA+CanWEA “Wind and Transmission Workshop” in Detroit, MI (March 18-19) and NWCC “Eastern Midwest Transmission Workshop” in Dearborn, MI in summer 2008 and determine actions for the GLWC to carry forward thereafter.

Economic Development Aspects of Wind Power

- Identify what ED efforts can drive wind power manufacturing and “green jobs” growth in the Great Lakes region
- Create a database of wind ED ideas and approaches
- Identify success stories

Economic Development Aspects of Wind Power

- Consider web-based tools or a workshop in the region
 - To promote ED aspects of wind power manufacturing
 - Jobs growth potential

More Information

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